POWERED SUBWOOFER

# SW-32HT

## SERVICE MANUAL

KENWOOD

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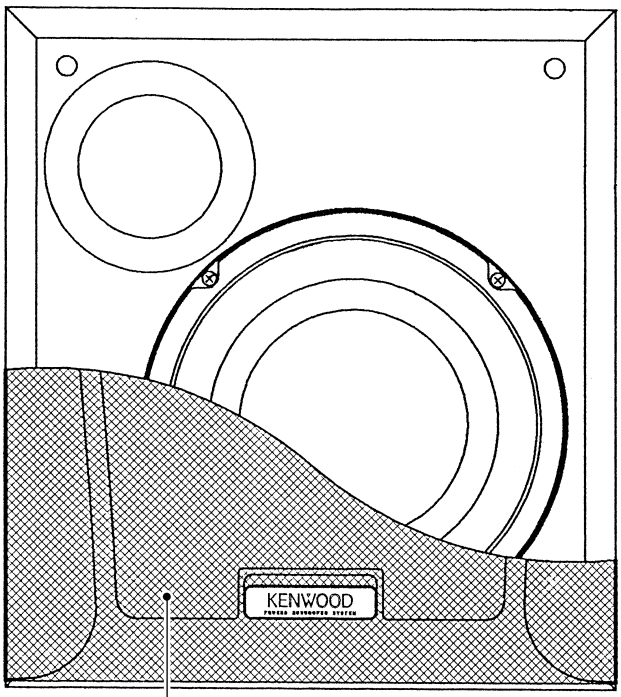
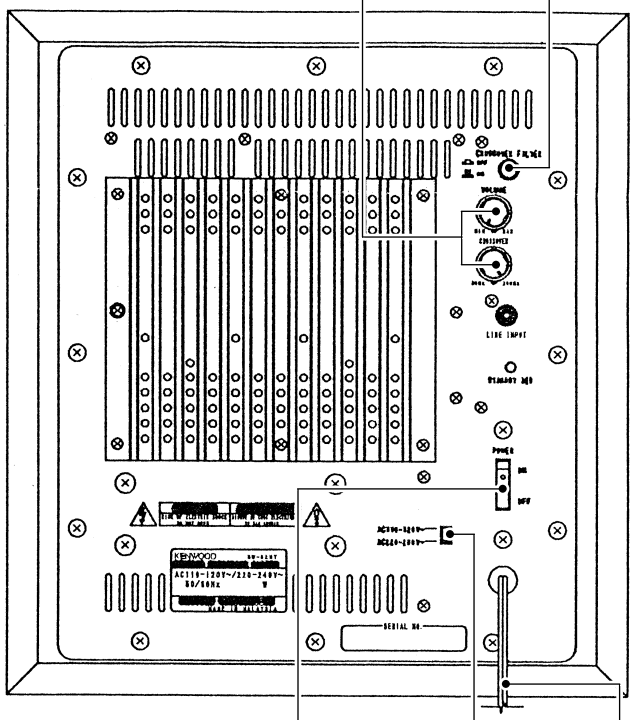



Grille assy
(B06-1257-08)



Knob
(K29-0580-08)x2

Push knob
(K27-0211-08)

Power switch
(S66-0203-08)

Voltage selector*
(S62-0208-08)

AC power cord*
(E30-)

*** Refer to parts list on page 7.**

## SPECIFICATIONS

**Type** ..... Subwoofer system with built-in amplifier

**[Amplifier]**

100 watts RMS, at 4 Ω, from 20 Hz to 200 Hz with no more than 0.09 % total harmonic distortion.

**Input Sensitivity & Input Impedance**
..... 200 mV (12 kΩ)

**Supply Voltage** ..... U.S.A. and Canada AC 120 V
Other countries AC 110 V - 120 V/ AC 220 V - 240 V

**Rated Power Consumption** .. 160 W

**[Speaker]**

**Enclosure** ..... Bass-Reflex, Floor Standing Type

**Speaker Units** ..... 200 mm (8") Cone type

**Nominal Impedance** ..... 4 Ω

**Dimensions** ..... Width : 300 mm (11-13/16")
Height : 333 mm (13-1/8")
Depth : 483 mm (19")

**Net Weight** ..... 15 kg (33.1 lb)

**Supplied Accessories** ..... Pin-plug cord × 1
..... Pads (× 4)

**NOTE: DO NOT REMOVE THE GRILLE.**

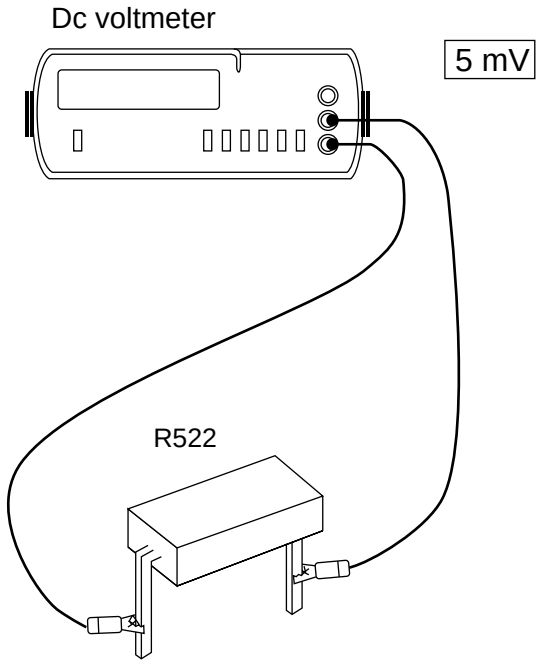
**Note:**

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

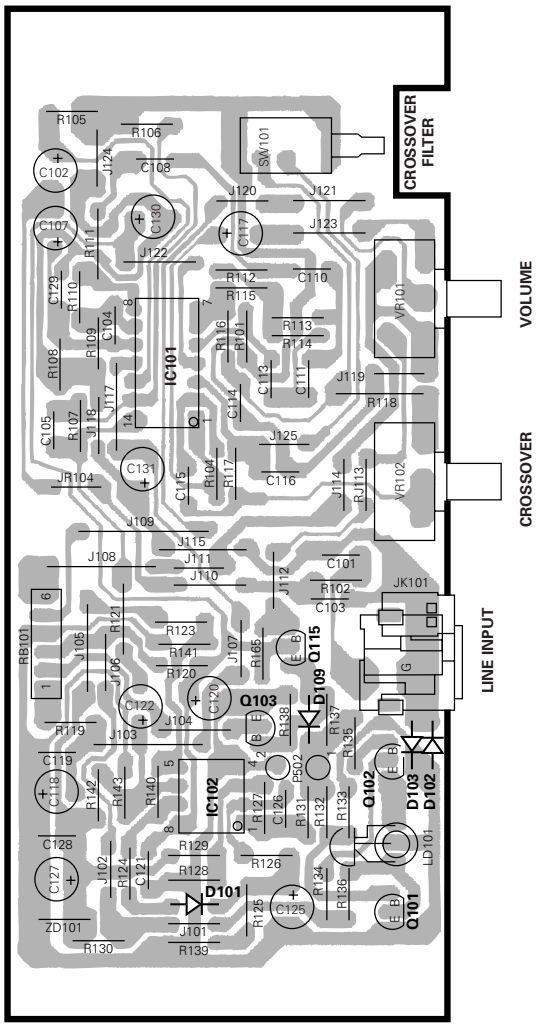
# ADJUSTMENT

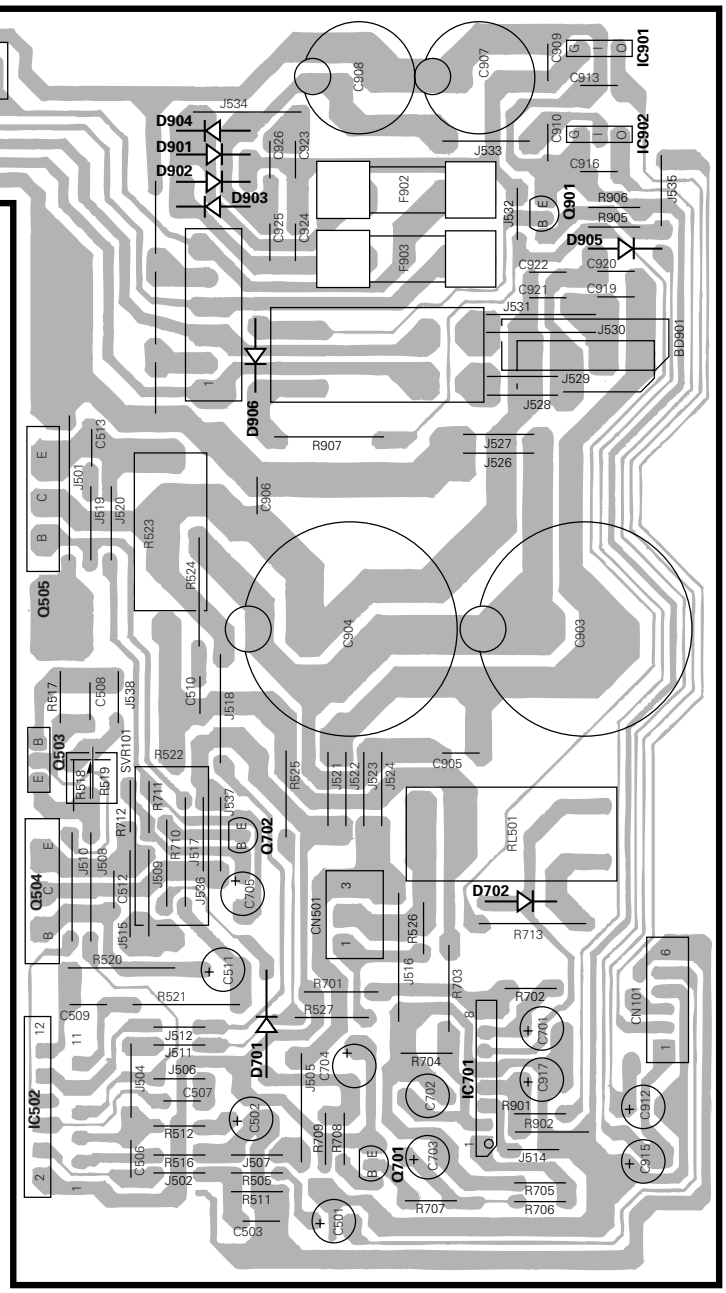
| No. | ITEM | INPUT SETTINGS | OUTPUT SETTINGS | AMPLIFIER SETTINGS | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|---|---|---|---|---|---|---|---|
| **Unless otherwise specified, the individual switches should be set as following : POWER : ON NO SIGNAL INPUT** | | | | | | | |
| 1 | IDLE CURRENT | – | Connect a DC voltmeter to R522 | VOLUME : 0 | SVR101 | 5 mV | (a) |

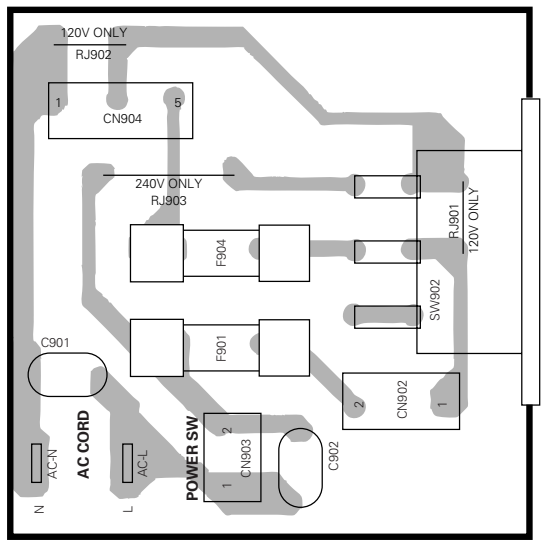
**(a)**



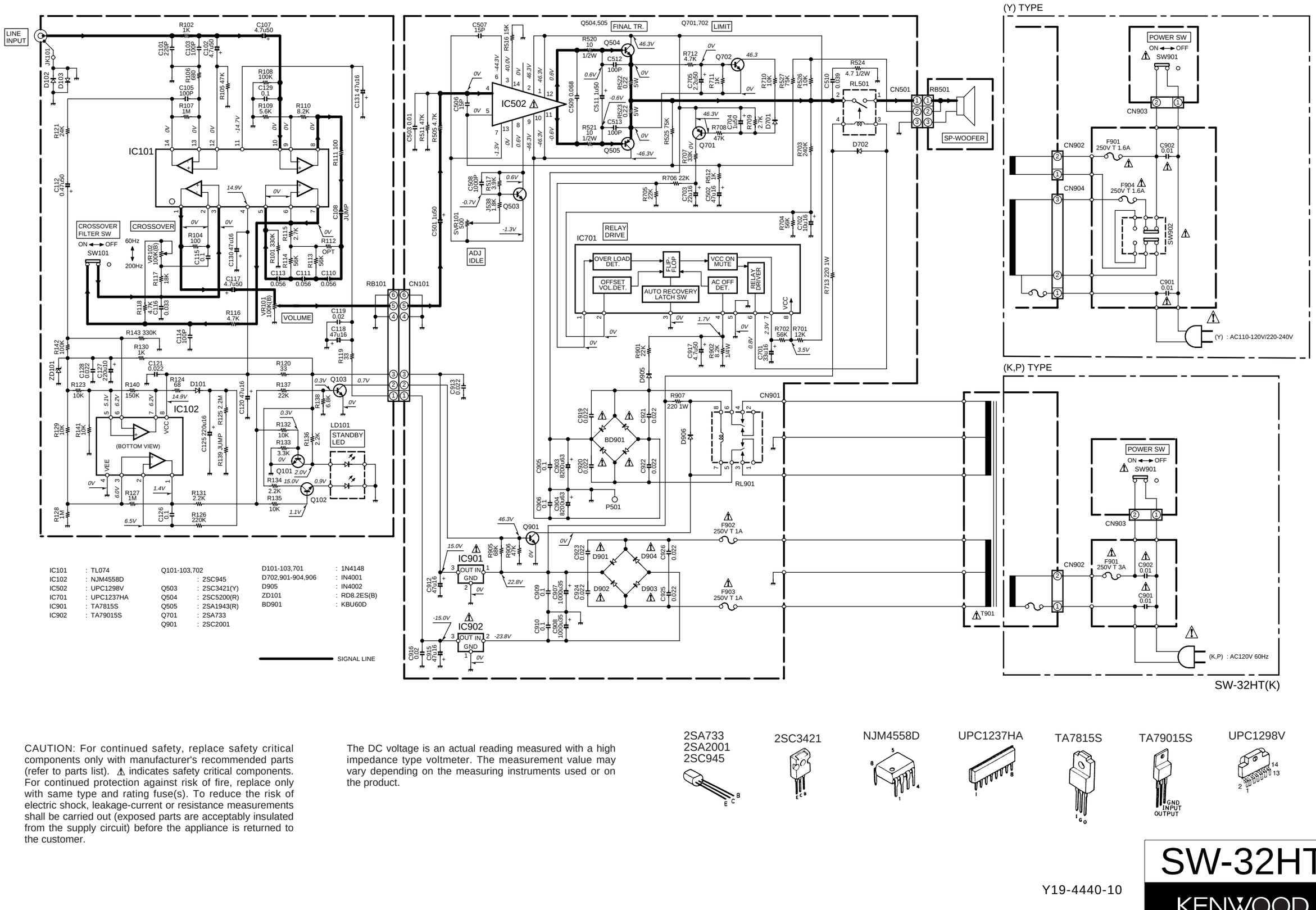
# PC BOARD(Component side view)




Refer to the schematic diagram for the value of resistors and capacitors.




| | | | | | |
|---|---|---|---|---|---|
| IC101 | : TL074 | Q101-103,702 | | D101-103,701 | : 1N4148 |
| IC102 | : NJM4558D | | : 2SC945 | D702,901-904,906 | : IN4001 |
| IC502 | : UPC1298V | Q503 | : 2SC3421(Y) | D905 | : IN4002 |
| IC701 | : UPC1237HA | Q504 | : 2SC5200(R) | ZD101 | : RD8.2ES(B) |
| IC901 | : TA7815S | Q505 | : 2SA1943(R) | BD901 | : KBU60D |
| IC902 | : TA79015S | Q701 | : 2SA733 | | |
| | | Q901 | : 2SC2001 | | |

SIGNAL LINE

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product.

2SA733
2SA2001
2SC945



2SC3421



NJM4558D



UPC1237HA



TA7815S



TA79015S




UPC1298V



SW-32HT(K)

Y19-4440-10

SW-32HT

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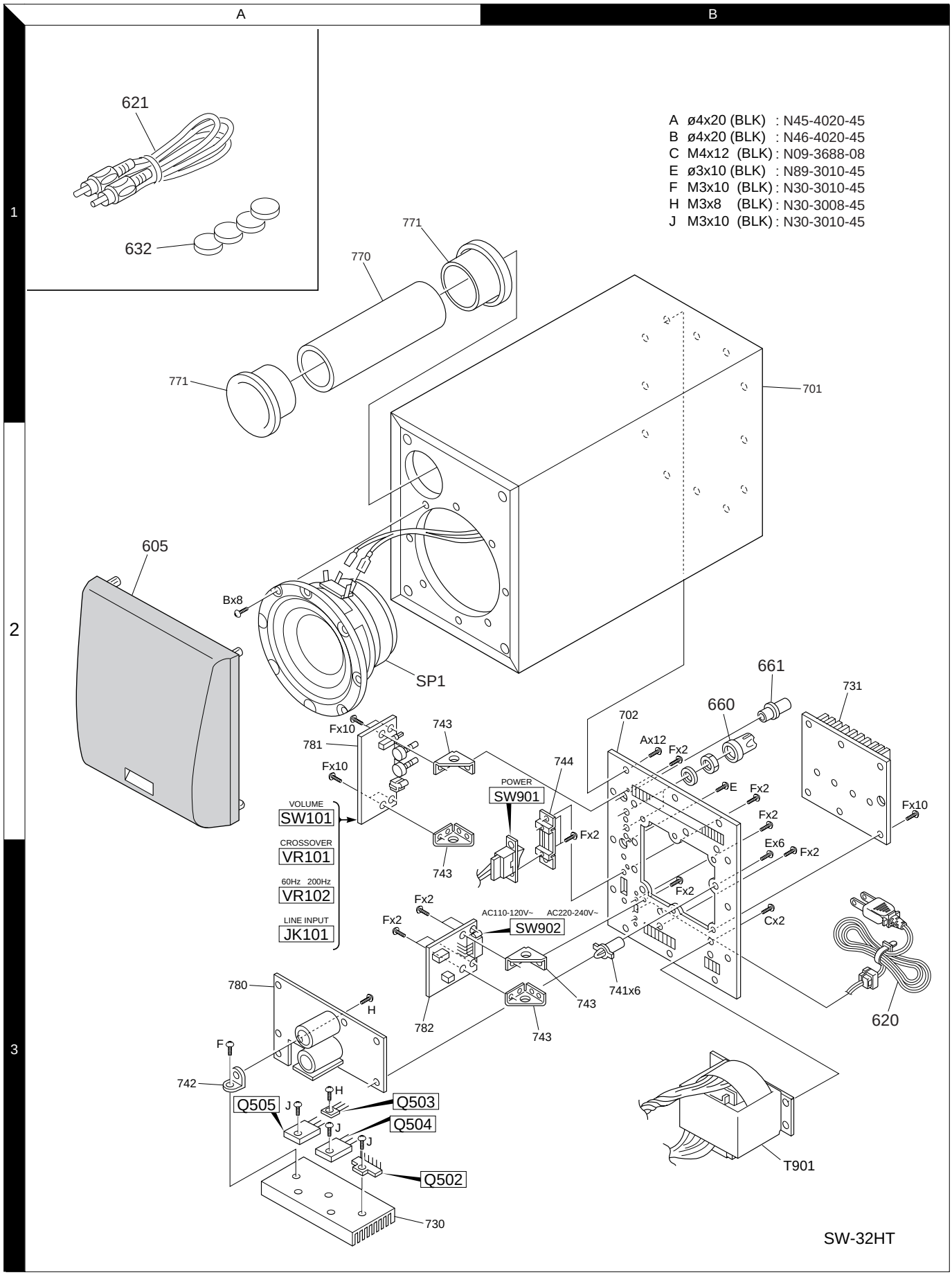
# EXPLODED VIEW






Parts with exploded view numbers larger than 700 are not supplied.

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

❶

| Ref. No | Address | New Parts | Parts No. | Description | Destination | Remarks |
|---|---|---|---|---|---|---|
| **SW-32HT** | | | | | | |
| 605 | 2A | ✻ | B06-1257-08 | GRILLE ASSY | | |
| - | | | B46-0328-03 | WARRANTY CARD | KY | |
| - | | | B46-0336-03 | WARRANTY CARD | P | |
| - | | | B59-1104-00 | SERVICE STATION DIRECTRY | Y | |
| - | | ✻ | B61-0966-00 | INSTRUCTION MANUAL | | |
| ⚠ 620 | 3B | ✻ | E30-5493-08 | LINE CORD | KP | |
| ⚠ 620 | 3B | ✻ | E30-5494-08 | LINE CORD | Y | |
| 621 | 1A | | E30-5083-05 | AUDIO CORD | | |
| 632 | 1A | ✻ | G13-1141-08 | ABSORBER | | |
| - | | ✻ | H10-6566-08 | POLYSTYRENE FOAMED FIXTURE,TOP | | |
| - | | ✻ | H10-6567-08 | POLYSTYRENE FOAMED FIXTURE,BOT | TOM | |
| - | | ✻ | H25-2177-08 | PROTECTION BAG | Y | |
| - | | ✻ | H51-1165-08 | ITEM CARTON CASE | | |
| 660 | 2B | ✻ | K29-0580-08 | KNOB,BLK 270 | | |
| 661 | 2B | ✻ | K27-0211-08 | PUSH KNOB | | |
| ⚠ T901 | 3B | ✻ | L07-3023-05 | POWER TRANSFORMER | KP | |
| ⚠ T901 | 3B | ✻ | L07-3024-05 | POWER TRANSFORMER | Y | |
| C | | | N09-3688-08 | SCREW,4X12 | | |
| ⚠ SW901 | 2B | ✻ | S66-0203-08 | POWER SWITCH | | |
| SP1 | 2A | ✻ | T10-0848-05 | WOOFER | | |
| **POWER SUPPLY** | | | | | | |
| ⚠ C901,902 | | | C91-0647-05 | CERAMIC 0.010UF P | | |
| ⚠ F901 | | | F05-1623-05 | FUSE,1.6A/250V | Y | |
| ⚠ F901 | | | F06-3027-05 | FUSE,3A/250V | KP | |
| ⚠ F904 | | | F05-1623-05 | FUSE,1.6A/250V | Y | |
| ⚠ SW902 | 3B | ✻ | S62-0208-08 | VOLTAGE SELECTOR | Y | |
| **MAIN** | | | | | | |
| C501 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C502 | | | CE04KW1C470M | ELECTRO 47UF 16WV | | |
| C503 | | | CQ92FM1H103J | MYLAR 0.010UF J | | |
| C506,507 | | | CC45FSL1H150J | CERAMIC 15PF J | | |
| C508 | | | CK45FB1H102K | CERAMIC 1000PF K | | |
| C509 | | | CQ92FM1H683J | MYLAR 0.068UF J | | |
| C510 | | | CQ92FM1H393J | MYLAR 0.039UF J | | |
| C511 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C512,513 | | | CC45FSL1H101K | CERAMIC 100PF K | | |
| C701 | | | CE04KW1C330M | ELECTRO 33UF 16WV | | |
| C702 | | | CE04KW1C100M | ELECTRO 10UF 16WV | | |
| C703 | | | CE04KW1C220M | ELECTRO 22UF 16WV | | |
| C704 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C705 | | | CE04KW1H2R2M | ELECTRO 2.2UF 50WV | | |
| C903,904 | | ✻ | C90-5028-08 | ELECTRO 8200UF 63WV | | |
| C905,906 | | | CK45FB1H104Z | CERAMIC 0.10UF Z | | |
| C907,908 | | | CE04KW1V102M | ELECTRO 1000UF 35WV | | |
| C909,910 | | | CK45FB1H104Z | CERAMIC 0.10UF Z | | |
| C912 | | | CE04KW1C470M | ELECTRO 47UF 16WV | | |
| C913 | | | CK45FB1H223Z | CERAMIC 0.022UF Z | | |

**L :** Scandinavia **K :** USA **P :** Canada **R :** Mexico **C :** China **I :** Malaysia
**Y :** PX(Far East, Hawaii) **T :** Europe **E :** Europe **G :** Germany **V :** China(Shanghai)
**Y :** AAFES(Europe) **X :** Australia **Q :** Russia **H :** Korea **M :** Other Areas ⚠ indicates safety critical components.

✻ New Parts
Parts without **Parts No.** are not supplied.
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❷

| Ref. No | Address | New Parts | Parts No. | Description | Destination | Remarks |
|---|---|---|---|---|---|---|
| C915 | | | CE04KW1C470M | ELECTRO 47UF 16WV | | |
| C916 | | | CK45FB1H223Z | CERAMIC 0.022UF Z | | |
| C917 | | | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C919-926 | | | CK45FB1H223Z | CERAMIC 0.022UF Z | | |
| ⚠ F902,903 | | | F06-1022-05 | FUSE,1A/250V | | |
| R520,521 | | | RD14BB2H100J | RD 10 J 1/2W | | |
| R522,523 | | | R92-2260-08 | CEMENT 0.22 5W | | |
| R524 | | | RD14BB2H4R7J | RD 4.7 J 1/2W | | |
| R713 | | | RS14DB3A221J | FL-PROOF RS 220 J 1W | | |
| R907 | | | RS14DB3A221J | FL-PROOF RS 220 J 1W | | |
| SVR101 | | ✻ | R32-0408-08 | TRIMMING POT,500 | | |
| RL501 | | ✻ | S76-0206-08 | RELAY | | |
| RL901 | | ✻ | S76-0207-08 | RELAY | | |
| ⚠ BD901 | | ✻ | KBU6D | DIODE 6A,200V | | |
| D701 | | | 1N4148 | DIODE | | |
| D702 | | | 1N4001 | DIODE | | |
| ⚠ D901-904 | | | 1N4001 | DIODE | | |
| D905 | | | 1N4002 | DIODE | | |
| D906 | | | 1N4001 | DIODE | | |
| ⚠ IC502 | | | UPC1298V | IC(POWER AMP DRIVER) | | |
| IC701 | | | UPC1237HA | IC(POWER AMP) | | |
| ⚠ IC901 | | | TA7815S | IC(VOLTAGE REGULATOR/ +15V) | | |
| ⚠ IC902 | | | TA79015S | IC(VOLTAGE REGULATOR/ -15V) | | |
| Q503 | | | 2SC3421(Y) | TRANSISTOR | | |
| Q504 | | | 2SC5200(R) | TRANSISTOR | | |
| Q505 | | | 2SA1943(R) | TRANSISTOR | | |
| Q701 | | | 2SA733 | TRANSISTOR | | |
| Q702 | | | 2SC945 | TRANSISTOR | | |
| Q901 | | | 2SC2001 | TRANSISTOR | | |
| **DISPLAY** | | | | | | |
| LD101 | | ✻ | B30-1823-08 | MULTI-COLOR LED | | |
| C101 | | | CC45FSL1H221K | CERAMIC 220PF K | | |
| C102 | | | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C103 | | | CC45FSL1H101K | CERAMIC 100PF K | | |
| C105 | | | CC45FSL1H101K | CERAMIC 100PF K | | |
| C107 | | | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C110,111 | | | CQ92FM1H563J | MYLAR 0.056UF J | | |
| C112 | | | CE04KW1HR47M | ELECTRO 0.47UF 50WV | | |
| C113 | | | CQ92FM1H563J | MYLAR 0.056UF J | | |
| C114 | | | CC45FSL1H101K | CERAMIC 100PF K | | |
| C115 | | | CQ92FM1H104J | MYLAR 0.10UF J | | |
| C116 | | | CQ92FM1H333J | MYLAR 0.033UF J | | |
| C117 | | | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C118 | | | CE04KW1C470M | ELECTRO 47UF 16WV | | |
| C119 | | | CK45FB1H223Z | CERAMIC 0.022UF Z | | |
| C120 | | | CE04KW1C470M | ELECTRO 47UF 16WV | | |
| C121 | | | CK45FB1H223Z | CERAMIC 0.022UF Z | | |
| C125 | | | CE04KW1C221M | ELECTRO 220UF 16WV | | |
| C126 | | | CK45FB1H104Z | CERAMIC 0.10UF Z | | |
| C127 | | | CE04KW1A221M | ELECTRO 220UF 10WV | | |
| C128 | | | CK45FB1H223Z | CERAMIC 0.022UF Z | | |
| C129 | | | CK45FB1H104Z | CERAMIC 0.10UF Z | | |
| C130, 131 | | | CE04KW1C470M | ELECTRO 47UF 16WV | | |

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# SW-32HT

## PARTS LIST

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❸

| Ref. No | Address | New Parts | Parts No. | Description | Destination | Remarks |
|---|---|---|---|---|---|---|
| JK101 | 3A | ✻ | E63-0208-08 | RCA JACK | | |
| VR101,102 | 3A | ✻ | R31-0412-08 | POTENTIOMETER | | |
| SW101 | 2A | ✻ | S68-0203-08 | SW,PUSH FILTER | | |
| D101-103 | | | 1N4148 | DIODE | | |
| IC101 | | | TL074 | IC | | |
| IC102 | | | NJM4558D | IC(OP AMP X2) | | |
| Q101-103 | | | 2SC945 | TRANSISTOR | | |
| ZD101 | | | RD8.2ES(B) | ZENER DIODE 8V,0.5W | | |

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**Note:**
Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe(E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.


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